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Notice of Allowability	Application No.	Applicant(s)	
	09/901,004	YOSHIMINE ET AL.	
	Examiner	Art Unit	
	Brian L. Mutschler	1753	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course, THIS
1. \square This communication is responsive to <u>7/9/04</u> .			
2. ☑ The allowed claim(s) is/are <u>1-18</u> .			
3. $igotimes$ The drawings filed on <u>22 October 2003</u> are accepted by the	e Examiner.		
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application No		ion from the
* Certified copies not received:	14.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit	ENT of this application. tted. Note the attached EXAMINER's	S AMENDMENT or N	
INFORMAL PATENT APPLICATION (PTO-152) which give	s reason(s) why the oath or declarat	ion is deficient.	
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftsperson 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	on's Patent Drawing Review(PTO-9	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in th	84(c)) should be written on the drawing to header according to 37 CFR 1.121(d	gs in the front (not the).	back) of
7. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATERIAL m FOR THE DEPOSIT OF BIOLOGICA	ust be submitted. N NL MATERIAL.	ote the
Attachment(s) I. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal Pa	atent Application (PTC	-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary (PTO-413),	
B. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date B. Examiner's Comment Regarding Requirement for Deposit	Paper No./Mail Date B), 7. ⊠ Examiner's Amendm 8. ⊠ Examiner's Statemer	ent/Comment	vance
of Biological Material	9. Other	, S. I ROGOTIO TOT ANOT	vai ioo

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the claims:

- a. In claim 1 at line 5, please insert --layer-- after the word "protecting". This word was left off in the amendment filed July 9, 2004.
- 2. The following is an examiner's statement of reasons for allowance:

The instant claims are allowable over the prior art of record because they provide a combination of elements having structural relationships neither taught nor suggested by the prior art of record. Claim 1 requires, *inter alia*, a moisture-proof resin film positioned between solar cells and a front surface protecting layer, wherein the moisture-proof resin film is surrounded on all sides by sealing resin. In addition, the moisture-proof resin film covers an area as large as or larger than the area of the array of the solar cells and is smaller in size than the overlying area of the front surface protecting layer and the rear surface protecting layer. Claim 10 requires, *inter alia*, a resin film that is covered on all surfaces by a sealing resin and sized to cover an area larger than the solar cell and smaller than the surface protecting layers. While the prior

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art of record teaches the presence of the claimed structural elements, it does not teach the claimed relationships between the elements with regard to size and position.

Kataoka et al. (US '145) teach a solar cell having a resin film between the solar cell and the front surface protecting member, but the resin film is sprayed onto the surface of the solar cell. Since the resin film is sprayed onto the solar cell, the process precludes the resin film from being surrounded by the sealing resin. Similarly, EP '909 teaches the use of a resin film that is directly in contact with the solar cell.

Resin films that are not in contact with the solar cell have been taught in the prior art. For example, Tourneux (US '462) teaches the use of a resin film positioned between the solar cell and the front surface protecting layer, but the resin film is the same size as the surface protecting layers.

Although the structural elements are known, the prior art provides no teaching or motivation to use a resin film that is smaller than the protecting members, as large or larger than the solar cell(s), and surrounded by the sealing resin. This feature provides adequate coverage of the solar cell(s) by resin film and minimizes the potential points of moisture entry due to material interfaces.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian L. Mutschler whose telephone number is (571) 272-1341. The examiner can normally be reached on Monday-Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BLM August 25, 2004

NAM NGUYEN SUPERVISORY PATENT EXAMINE TECHNOLOGY CENTER 1700